

WHAT IS CLAIMED IS:

1. A vertical window blind comprising:

a hollow horizontal headrail extending in a longitudinal direction, and having first and second end portions opposite to each other in the longitudinal direction;

a first angle-adjusting mechanism including

a first horizontal shaft journalled within said headrail and extending along the longitudinal direction,

a first adjusting unit connected operatively to said first horizontal shaft and operable so as to actuate axial rotation of said first horizontal shaft, and

a plurality of first slat holders disposed in said first end portion of said headrail and slidable along said first horizontal shaft, each of said first slat holders including a first slat hook that has an inner end disposed in said headrail and coupled to said first horizontal shaft such that axial rotation of said first horizontal shaft results in corresponding rotation of said first slat hook about an axis transverse to the longitudinal direction, and an outer end opposite to said inner end and disposed externally of said headrail;

a first slat unit including a plurality of parallel vertical slats, each of which has an uppermost end connected to said outer end of said first slat hook of a respective one of said first slat holders;

a second angle-adjusting mechanism including

a second horizontal shaft journalled within said headrail and extending along the longitudinal direction,

5 a second adjusting unit connected operatively to said second horizontal shaft and operable so as to actuate axial rotation of said second horizontal shaft, and

a plurality of second slat holders disposed in said second end portion of said headrail and slidable
10 along said second horizontal shaft, each of said second slat holders including a second slat hook that has an inner end disposed in said headrail and coupled to said second horizontal shaft such that axial rotation of said second horizontal shaft results in corresponding
15 rotation of said second slat hook about an axis transverse to the longitudinal direction, and an outer end opposite to said inner end and disposed externally of said headrail; and

a second slat unit including a plurality of parallel
20 vertical slats, each of which has an uppermost end connected to said outer end of said second slat hook of a respective one of said second slat holders;

whereby, tilting angle of said first slat unit can be adjusted independently from that of said second slat
25 unit.

2. The vertical window blind as claimed in Claim 1, wherein said second end portion of said headrail has

first and second sections opposite to each other in the longitudinal direction,

said second slat holders including a first set disposed in said first section of said second end portion of said headrail, and a second set disposed in said second section of said second end portion of said headrail,

each of said second slat holders in said first set further including a first coupling unit that interconnects said inner end of said second slat hook to said second horizontal shaft,

each of said second slat holders in said second set further including a second coupling unit that interconnects said inner end of said second slat hook to said second horizontal shaft,

said first and second coupling units being configured such that said second slat hooks of said second slat holders in said first and second sets rotate in opposite directions when said second horizontal shaft is rotated axially.

3. The vertical window blind as claimed in Claim 2, wherein each of said second slat holders further includes a cage,

said first coupling unit of each of said second slat holders in said first set including

a first worm gear mounted in said cage of said second slat holder in said first set, sleeved co-rotatably on said second horizontal shaft, and

threaded in a first threading direction, and

a first worm formed on said inner end of said second slat hook of said second slat holder in said first set and meshing with said first worm gear.

5 4. The vertical window blind as claimed in Claim 3, wherein said second coupling unit of each of said second slat holders in said second set includes

10 a second worm gear mounted in said cage of said second slat holder in said second set, sleeved co-rotatably on said second horizontal shaft, and threaded in a second threading direction opposite to the first threading direction, and

15 a second worm formed on said inner end of said second slat hook of said second slat holder in said second set and meshing with said second worm gear.

5. A vertical window blind comprising:

20 a hollow horizontal headrail extending in a longitudinal direction, and having first and second end portions opposite to each other in the longitudinal direction;

an angle-adjusting mechanism including

a horizontal shaft journaled within said headrail and extending along the longitudinal direction,

25 an adjusting unit connected operatively to said horizontal shaft and operable so as to actuate axial rotation of said horizontal shaft,

a plurality of first slat holders disposed in said first end portion of said headrail and slidable along said horizontal shaft, each of said first slat holders including a first slat hook that has an inner end disposed in said headrail and coupled to said horizontal shaft such that axial rotation of said horizontal shaft results in corresponding rotation of said first slat hook about an axis transverse to the longitudinal direction, and an outer end opposite to said inner end and disposed externally of said headrail, each of said first slat holders further including a first coupling unit that interconnects said inner end of said first slat hook to said horizontal shaft,

a plurality of second slat holders disposed in said second end portion of said headrail and slidable along said horizontal shaft, each of said second slat holders including a second slat hook that has an inner end disposed in said headrail and coupled to said horizontal shaft such that axial rotation of said horizontal shaft results in corresponding rotation of said second slat hook about an axis transverse to the longitudinal direction, and an outer end opposite to said inner end and disposed externally of said headrail, each of said second slat holders further including a second coupling unit that interconnects said inner end of said second slat hook to said horizontal shaft,

said first and second coupling units being

configured such that said first and second slat hooks rotate in opposite directions when said horizontal shaft is rotated axially;

5 a first slat unit including a plurality of parallel vertical slats, each of which has an uppermost end connected to said outer end of said first slat hook of a respective one of said first slat holders; and

10 a second slat unit including a plurality of parallel vertical slats, each of which has an uppermost end connected to said outer end of said second slat hook of a respective one of said second slat holders.

6. The vertical window blind as claimed in Claim 5, wherein each of said first slat holders further includes a cage, said first coupling unit of each of said first
15 slat holders including

a first worm gear mounted in said cage of said first slat holder, sleeved co-rotatably on said horizontal shaft, and threaded in a first threading direction, and

20 a first worm formed on said inner end of said first slat hook of said first slat holder and meshing with said first worm gear.

7. The vertical window blind as claimed in Claim 6, wherein each of said second slat holders further includes a cage, said second coupling unit of each of said second
25 slat holders including

a second worm gear mounted in said cage of said second slat holder, sleeved co-rotatably on said horizontal

shaft, and threaded in a second threading direction opposite to the first threading direction, and

5 a second worm formed on said inner end of said second slat hook of said second slat holder and meshing with said second worm gear.